𝒜RISTO DEMONSTRATION SLIDE RULES

Thanks to their great scale length and distinct figuring, the scales of ARISTO Demonstration slide rules are clearly visible from every seat, even in large classrooms.

The body panels of these rules are adjustable, to permit regulation of the slide movement. For despatch, the slide is secured by a pin, which also restrains the cursor from slipping off. Hooks are provided, to suspend the rule from the blackboard or the classroom wall.

With hooks to pattern R, which must be specially ordered, the single sided rule can be so suspended that its plain back is towards the class. On this plain face linear or logarithmic scales can be laid out, with a grease pencil, for the exposition of the slide rule principle.

𝒜RISTO PROJECTION SLIDE RULES

Special models of the ARISTO Scholar and ARISTO Scholar LL rules are available for the demonstration of slide rule calculations with commercial overhead projectors. Full details are given in our catalogue "ARISTO Slide Rules and Drawing Instruments for Overhead projectors".

TEXTBOOKS ON SLIDE RULE MANIPULATION

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Theory and Operation of the Slide Rule	Ellis, J. P. Dover Publications Inc.
The Modern Slide Rule	Stender, R. and McKelvey, K. K. Macmillan & Co. Ltd.

For primary and trade schools the simplified slide rules, ARISTO Junior 0901 and the ARISTO Simplex 0911 are available. For Comprehensive or Grammar Schools, Technical and Commercial Institutes and Schools of Building, the double face ARISTO TriLog 0908 is recommended. Special catalogues are available on request. For details of ARISTO Drawing Instruments for schools please ask for catalogue ZSCH.

The right of variation from catalogue description is reserved.

Supplies and Information available from your Dealer
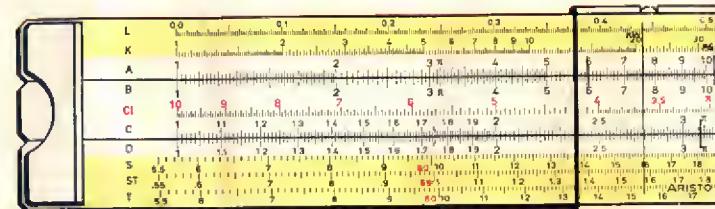
𝒜RISTO

SCHOLAR

The Students Rule with special advantages
For Secondary schools, Grammar schools,
Technical colleges and Trade schools

ARISTO - SCHOLAR
0903 · 0903 LL
0903 VS
0903 VS-2

The ARISTO Scholar student's rule satisfies the wishes of every teacher. Whether the plain back of the rule is used for the mastery of the slide rule principle, by means of personally constructed scales; whether the fundamental and reciprocal scales are used for primary instruction or the Log-Log scales for more advanced exercises — the scale arrangement on the front face always remains the same. This gives the advantage that the several types of ARISTO Scholar rules can be used, in class, simultaneously.

ARISTO Student's slide rules embody the following advantages:

● Clear scale pattern, with large figures
● Readability without eye-fatigue
● Ideally smooth, non-jerking slide movement
● Highly flexible, break-resistant construction, in ARISTOPAL
● Material not affected by water or by many chemicals
● Resistant to Light, Colour-fast and non-inflammable
● Supplied in plastics case, of indestructible ARISTOLEN

The superiority of ARISTO Student's slide rules in teaching practice is daily demonstrated. Experienced teachers, in all branches of school work, have influenced their design.
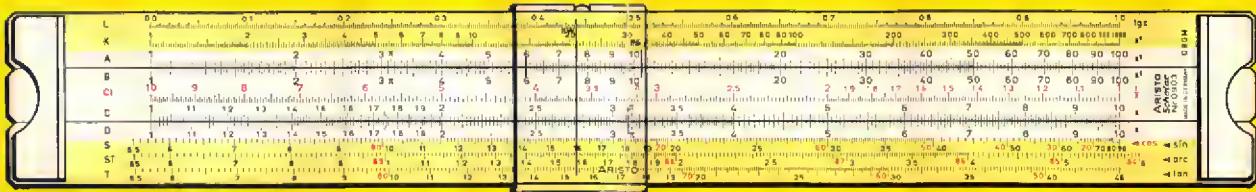
Front face 0903 · 0903 LL · 0903 VS · 0903 VS-2   Scales: L, K, A, B. CI, C, D, S, ST, T
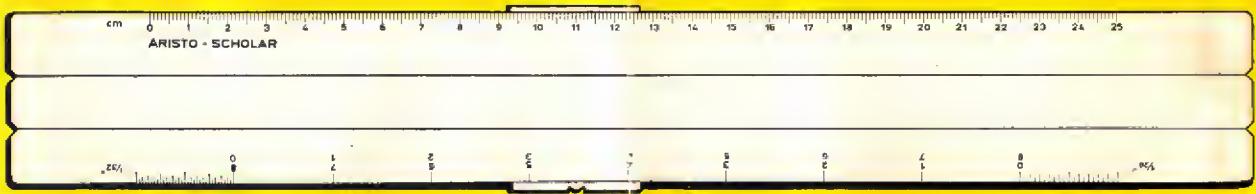
Back of Rule 0903   Millimeter and Inch scales

ARISTO-SCHOLAR

The school Rietz Pattern, for Grammar schools, Primary, Secondary and Technical schools.

0903	Scale length 10 in. (25 cm)
3/100	Demonstration Model, scale length 40 in. (100 cm)
3/150	Demonstration Model, scale length 60 in. (150 cm)
103 LL	Projection slide rule, scale length 8 in. (20 cm)

The ARISTO Scholar is also known as the School Rietz, because it combines, on one face, all the familiar scales of the Rietz system, plus the trigonometrical scales, S, ST, and T. As a consequence of this arrangement, reversal of the slide is avoided and trigonometrical solutions or function values are found by a simple movement of the cursor. The trigonometrical scales are decimally divided and scale ST can therefore be used directly for the conversion of Circular to Radian measure and vice versa.

$\overline{A}$RISTO - SCHOLAR VS AND VS-2

The double-face slide rule with transposable single sided cursor (0903 VS) or double sided cursor (0903 VS-2) for Secondary and Grammar schools

0903 VS   Scale length 10 in. (25 cm)

0903 VS-2   Scale length 10 in. (25 cm)

3 VS/150   Demonstration Model, scale length 60 in. (150 cm)

The front face of this model is identical with that of model 0903. On the back of the rule are displayed only the folded scales CF/DF and the fundamental scales C and D.

The special advantage offered by this slide rule is to be found in the facility of using, in primary instruction, only the fundamental scales on the back of the rule. By this means, the confusion of the student by a multiplicity of scales is avoided. The pupil quickly becomes familiar with the scale system now to be found in all modern technical and commercial slide rules.

By the use of the folded scales, the tedium of slide re-setting can be avoided in working proportions and in tabulating. Calculations involving the factor π can also be simplified.

With a single slide setting, calculations such as the following can be made

❶   Multiplication: $3 \cdot 3 = 9$, $3 \cdot 6 = 18$ etc.

❷   Tabulation: $y = 3 x$

❸   Proportion: $\dfrac{1}{3} = \dfrac{2}{6} = \dfrac{3}{9} = \dfrac{4}{12} = \dfrac{6}{18} = \cdots$
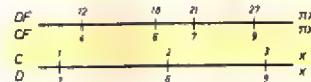

The cursor of the ARISTO Scholar VS is single sided and must be changed from one side of the rule to the other. The ARISTO Scholar VS-2 has a double sided cursor, the hair lines of which are mutually adjusted, so that transfer of work from one side of the rule to the other is immediately possible. The cursor has, on its front glass, the same arrangement of hair lines as on the single sided cursor, but on the rear glass is placed, next to the main hair line, an auxiliary line for the factor 36. This simplifies conversions such as, for example $° \leftrightarrow ''$, $h \leftrightarrow s$, m/s$\leftrightarrow$km/h, Years$\leftrightarrow$Days.

Front face 0903 VS · 0903 VS-2   Scales: L, K, A, B, CI, C, D, S, ST, T
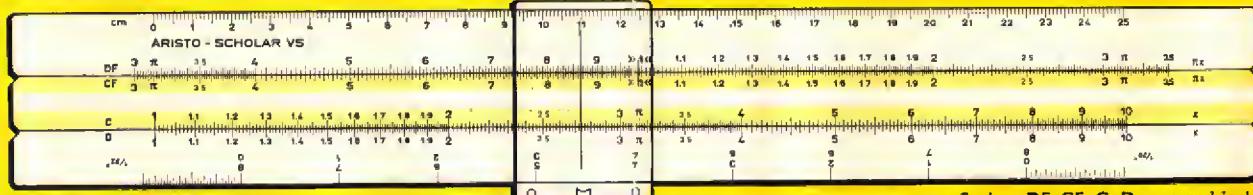
Back of Rule 0903 VS · 0903 VS-2   Scales: DF, CF, C, D, mm and inch.

The scale of reciprocals, CI, which is figured in red to obviate errors in reading, serves not only to indicate reciprocal values but also makes possible much saving of time in multi-factored multiplications and divisions. The application of a yellow tint to certain of the scales simplifies the introduction, to the beginner, of the most frequently used scales.

The cursor is made of glass clear ARISTOPAL and is provided with auxiliary hair lines for the direct reading of Diameter $\longleftrightarrow$ Circular Area and the conversion kW $\longleftrightarrow$ HP.

A firm grasp of the slide rule principle can be inculcated by marking on the plain back of the rule, with a grease pencil

lineor or logarithmic scales. With such personally constructed scales, simple exercises can be worked out.

ARISTO
BULLETINS FOR TEACHERS
This informal series of House Journals reports experience and offers useful hints to teachers. The Bulletins are published in English and German and will be sent free of charge. We invite interested teachers to apply direct to
DENNERT & PAPE · ARISTO-WERKE KG
2 Homburg 50, Postfach 380
Germony
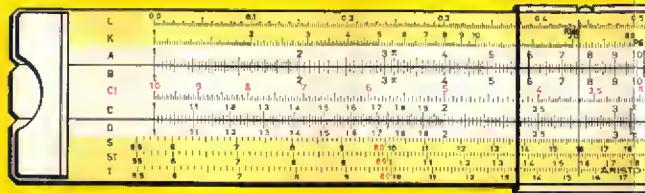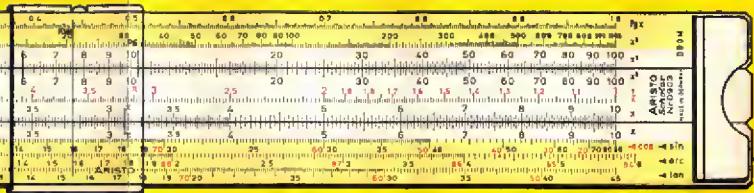
Front face 0903 LL   Scales: L, K, A, B, CI, C, D, S, ST, T
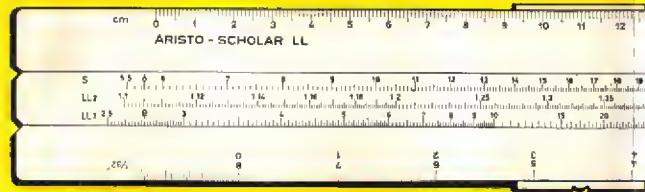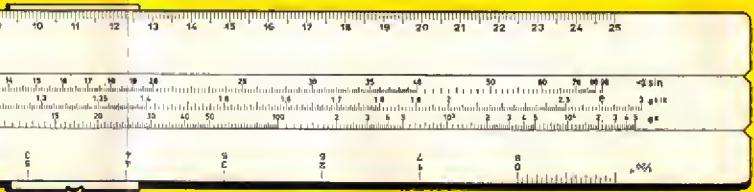
Back of Rule 0903 LL   Scales: S, LL₂, LL₃, mm and inch scales

ARISTO - SCHOLAR LL

The "Darmstadt" Pattern Student's rule. For Grammar schools, Secondary schools and Technical Institutes

0903 LL   Scale length 10 in. (25 cm)
3 LL/150 Demonstration Model, scale length 60 in. (150 cm)
103 LL   Projection slide rule, scale length 8 in. (20 cm)

The front face of this slide rule has the same scale arrangement as that of the ARISTO Scholar 0903.

The two-part Log-Lag scale, located on the back of the slide, permits the evaluation of required roots, powers and logarithms in the range 1.1 to 50000. The moveable scale of sines on the back of the slide provides simple solutions to problems involving trigonometrical functions.